3. Elijah

Program Name: Elijah.java Input File: elijah.dat

Elijah is working on writing a program that rotates images, but he's having trouble figuring it out. He knows you're quite apt at programming and has enlisted you to help him out.

Input: The first input line will contain a single number N ($1 \le N \le 100$) denoting the number of inputs to follow. Each input will start with two values R, C ($1 \le R$, C ≤ 100) denoting the number of rows and columns respectively of the image to follow. The following R lines will contain C characters, representing the image Elijah is supposed to rotate. The final line of each input will be a single value V ($1 \le V \le 10^2$ 0) denoting the number of degrees to rotate the image.

Note: V is guaranteed to be a multiple of 90, and all rotations are clockwise.

Output: Output each image rotated with a blank line separating each image.

Sample input:

11 10 00000000000 9 @ 9 @ @ @ @ @ @ @ @ (<u>a</u> (a 0000000000 90

Sample output: